

In the Claims

A 1. (Currently amended) A controller comprising at least one Home Audio Visual Initiative (HAVi) server that communicates with at least one HAVi compliant device using a HAVi application programming interface (API) and further communicates with at least one proxy on at least one Internet Protocol (IP) device using an IP and HAVi API, the server communicating with the IP device via an IP the Internet protocol, ~~the server comprising at least one IP device device control module (IP device DCM) corresponding to the IP device, the IP and HAVi API device providing API support to translate and relay calls between the proxy and the server so that one of the at least one HAVi compliant device can communicate with and the IP device controls the other one of the devices.~~

2. (Cancelled)

3. (Currently amended) The controller as set forth in claim 1 further comprising an IP device control module (DCM), wherein ~~a HAVi compliant device can control at least one device selected from the group consisting of an IP device and at least one HAVi compliant device, the at least one HAVi compliant device controllings the IP device by~~ accessing a DCM associated with ~~that the~~ the IP device.

4. (Original) The controller as set forth in claim 1, wherein the HAVi compliant device is physically located on the controller.

5. (Currently amended) The controller as set forth in claim ~~13~~, further comprising a HAVi stack that enables the IP device ~~DCMs~~ to be instantiated independently of bus reset events.

6. (Original) The controller as set forth in claim 1, wherein the server communicates with IP devices across a first communication medium and HAVi compliant devices across a second communication medium.

7. (Currently amended) The controller as set forth in claim 6, wherein the first communication medium is selected from the group consisting of fiber, optical, cable, wire, and wireless networks.

8. (Original) The controller as set forth in claim 5, wherein the second communication medium is an IEEE 1394 network.

9. (Original) The controller as set forth in claim 1, further comprising a stream bridge configured to capture content from a first device of IP and HAVi compliant devices coupled to the controller and relay it to a second device of IP and HAVi compliant devices.

10. (Currently amended) The controller as set forth in claim 1, wherein the controller is selected from the group consisting of a HAVi full audio/visual (FAV) device and an intermediate audio/visual (IAV) device.

11. (Currently amended) A controller comprising at least one server that communicates with at least one first network compliant device using a first network application programming interface (API) and a first protocol, and the server communicating with a proxy on at least one second network compliant device using a first and second network API, the server communicating with the second network compliant device via a second protocol, ~~the server including at least one second network compliant device control module (DCM) corresponding to the second network compliant device, the first and second network compliant device~~ API providing API support to translate and relay calls between the proxy and the server so that at least one of the first and second network compliant devices ~~can communicate with the second~~ controls the other one of the network compliant devices.

12-14. (Cancelled)

15. (Currently amended) An Internet Protocol (IP) Device comprising:

a proxy to communicate with a Home Audio Visual Initiative (HAVi) server on a controller using ~~an IP~~ the Internet protocol; and

at least one IP and HAVi application programming interface (API) configured to translate and relay communications between the IP device and the server ~~that are communicated with the server using the IP~~ Internet protocol, the server configured to manage the proxy so that ~~communications may occur with the IP device, wherein one of the IP device can communicate with and~~ a HAVi compliant device coupled to the HAVi server controls the other one of the devices.

16-18. (Cancelled)

19. (Currently amended) The IP device as set forth in claim 15, further comprising a streaming protocol to support streaming of content through the input/output coupling between the IP device and the controller.

20. (Currently amended) A second network compliant device for integration into a first network comprising:

a ~~number~~ plurality of first network compliant devices coupled to the first network via a first protocol;

a proxy on the second network compliant device to communicate with a first network server on one first network compliant device acting as a controller, the proxy and first network server communicating using a second protocol; and

at least one first and second network application programming interface (API) configured to translate and relay communications between the second network compliant device and the first network server ~~that are communicated with the server using a~~ the second protocol, the server configured to manage the proxy so that ~~communications may occur with the second network compliant device, wherein one of the first and second network compliant devices can communicate with at least one first~~ controls the other one of the network compliant device.

21-24. (Cancelled)

25. (Currently amended) A method of integrating an Internet Protocol (IP) device into a Home Audio Visual Initiative (HAVi) network comprising:

coupling at least one IP device to a first HAVi compliant device acting as a controller, the IP device coupled to the first HAVi compliant device through a connection using ~~an IP~~ the Internet protocol, the IP device including a proxy that communicates with a server on the controller;

~~instantiating an IP device device control module (IP device DCM) on the controller corresponding to the IP device;~~

accessing an IP and HAVi application programming interface (API) and the proxy on the IP device to translate and relay information to a server on the first HAVi compliant device; and

~~having controlling one of the IP device and a second HAVi compliant device by the other one of the devices through the proxy communicate with the IP device using the IP DCM.~~

26. (Currently amended) The method as set forth in claim 25 further comprising instantiating an IP device control module (IP DCM) on the controller corresponding to the IP device, wherein the IP ~~device~~-DCM is instantiated independently of bus reset events.

27. (Original) The method as set forth in claim 25, wherein the second HAVi compliant device is selected from the group consisting of the first HAVi compliant device and a device coupled to the first HAVi compliant device through a network.

28. (Currently amended) The method as set forth in claim 25, further comprising ~~the step of~~ streaming data between the IP device and the controller.

29. (Currently amended) A method of integrating a second network compliant device into a first network comprising:

coupling at least one second network compliant device to a first network compliant device acting as a controller, the second network compliant device coupled to the first network compliant device through a connection using a second network protocol, the second network compliant device including a proxy that communicates with a server on the controller;

~~instantiating a second network compliant device device control module (DCM) on the controller corresponding to the second network compliant device;~~

accessing a first and second network application programming interface (API) and proxy on the second network compliant device to translate and relay information to the server on the first network compliant device; and

~~having another controlling one of a different first network compliant device communicate with and the second network compliant device by the other of the devices through the proxy using the second network compliant device DCM.~~

30-32. (Cancelled)

33. (Currently amended) A system for integrating an Internet Protocol (IP) device into a Home Audio Visual Initiative (HAVi) network comprising:

means for coupling at least one IP device to a first HAVi compliant device acting as a controller, the IP device coupled to the first HAVi compliant device through a connection using ~~an IP~~ the Internet protocol, the IP device including a proxy that communicates with a server on the controller;

~~means for instantiating an IP device device control module (IP device DCM) on the controller corresponding to the IP device;~~

means for accessing an IP and HAVi application programming interface (API) on the IP device to translate and relay information to the first HAVi compliant device; and
means for ~~having coupling~~ a second HAVi compliant device to the HAVi network,
wherein one of the second HAVi compliant device and ~~communicate with~~ the IP device controls the other one of the devices.

34. (Cancelled)

35. (Currently amended) The system as set forth in claim 33 further comprising means for instantiating an IP device control module (IP DCM) on the controller corresponding to the IP device, wherein at least one HAVi compliant device controls ~~at least one device selected from the group consisting of an IP device and at least one HAVi compliant device, the HAVi compliant device controlling the~~ IP device by accessing a DCM corresponding to ~~that~~ the IP device.

36. (Currently amended) The system as set forth in claim ~~33~~ 35, wherein the IP device DCM is instantiated independently of bus reset events.

37. (Currently amended) The ~~method~~ system as set forth in claim 33, further comprising means for streaming data between the IP device and the controller.

38. (New) The controller as set forth in claim 11 further comprising a device control module (DCM), wherein the first network compliant device controls the second network compliant device by accessing the DCM.

39. (New) The controller as set forth in claim 11, wherein the first and second network compliant devices communicate through media selected from the group consisting of fiber, optical, cable, wire, and wireless networks.

40. (New) The controller as set forth in claim 11 further comprising a stream bridge configured to capture content from one of the first and second network compliant devices and relay it to the other one of the network compliant devices.

41. (New) The method as set forth in claim 29 further comprising instantiating a device control module (DCM) on the controller, wherein one of the first network compliant devices controls the second network compliant device by accessing the DCM.

42. (New) The method as set forth in claim 29, wherein the first and second network compliant devices communicate through media selected from the group consisting of fiber, optical, cable, wire, and wireless networks.

43. (New) The controller as set forth in claim 29, further comprising providing a stream bridge configured to capture content from one of the different first and second network compliant devices and relay it to the other one of the devices.
